

IMPACTS FOR D7 (through next 5 days)

Winds – Moderate

Storm Surge – Moderate

Rainfall/Flash Flooding – Moderate

Tornadoes – Low

Waves - Moderate

TROPICAL STORM ELSA BRIEFING



4:00 PM EDT
Sunday, July 4, 2021

Prepared by:
Scott Stripling

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



NHC_TAFB

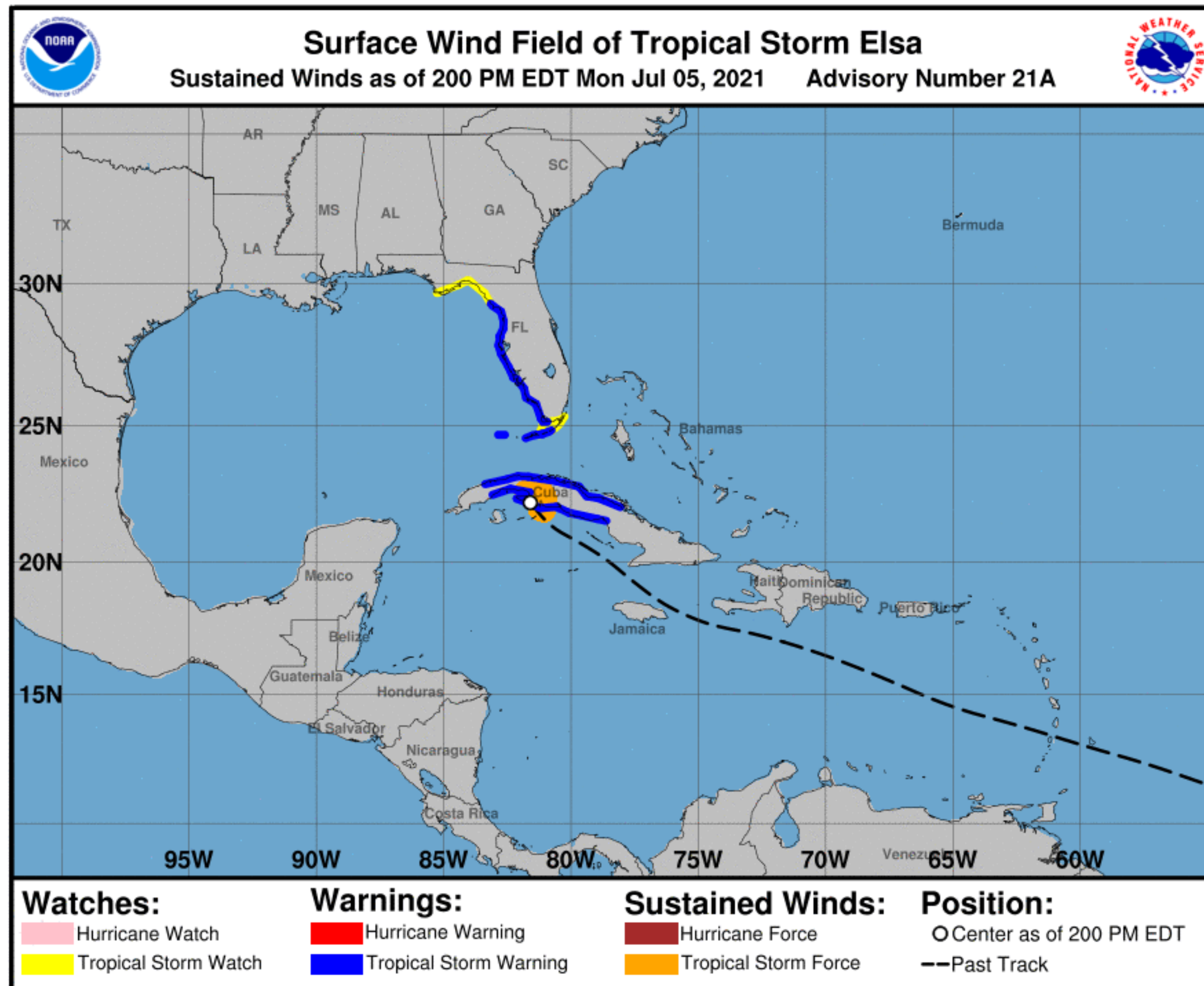
www.nhc.noaa.gov

Situation Overview

Tropical Storm Elsa



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



...Elsa Making Landfall Along S Coast of Cuba...

Summary of 200 PM EDT...1800 UTC...
Information

Location... 22.2N 81.6W

About 75 nm...SE of Havana Cuba

Maximum Sustained Winds...50 kt

Present Movement...305 degrees at 12 kt

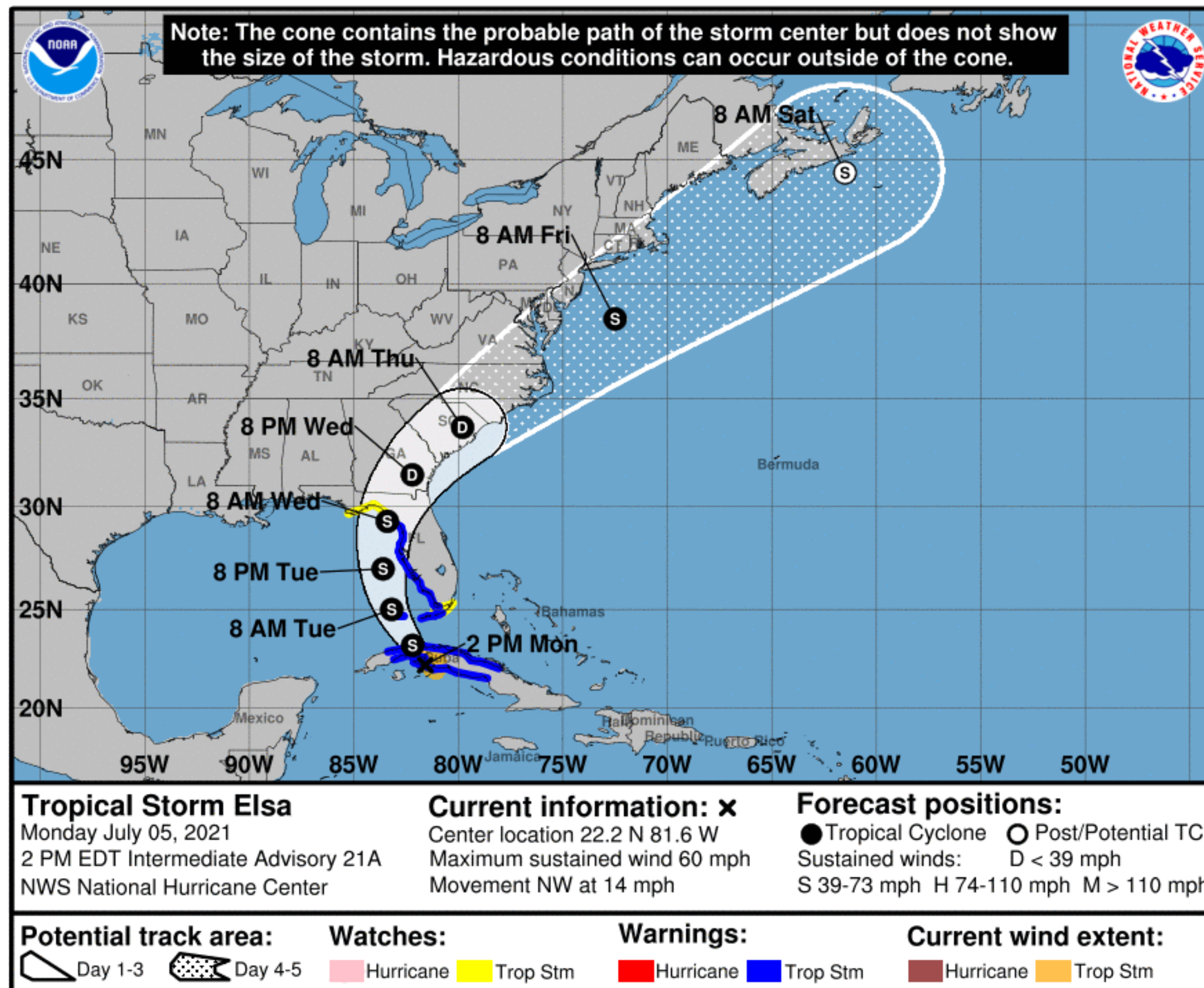
Minimum Central Pressure...1007 mb

Forecast Information

Tropical Storm Elsa



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NWS National Hurricane Center



NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

- Elsa is currently making landfall and will cross Cuba this afternoon and will emerge across the Straits of Florida this evening through early tonight.
- Tropical storm conditions, with squalls and bands of Tstorms, and quickly building seas, are expected to move across the Straits and enter the Florida Keys waters beginning early tonight and then into extreme SE Gulf of Mexico waters later tonight through Tuesday morning.
- White swath of potential track is the probable track error added to each side of the forecast track through day 3
- Hatched swath of potential track is 67th percentile error added to each side of the forecast track days 4-5

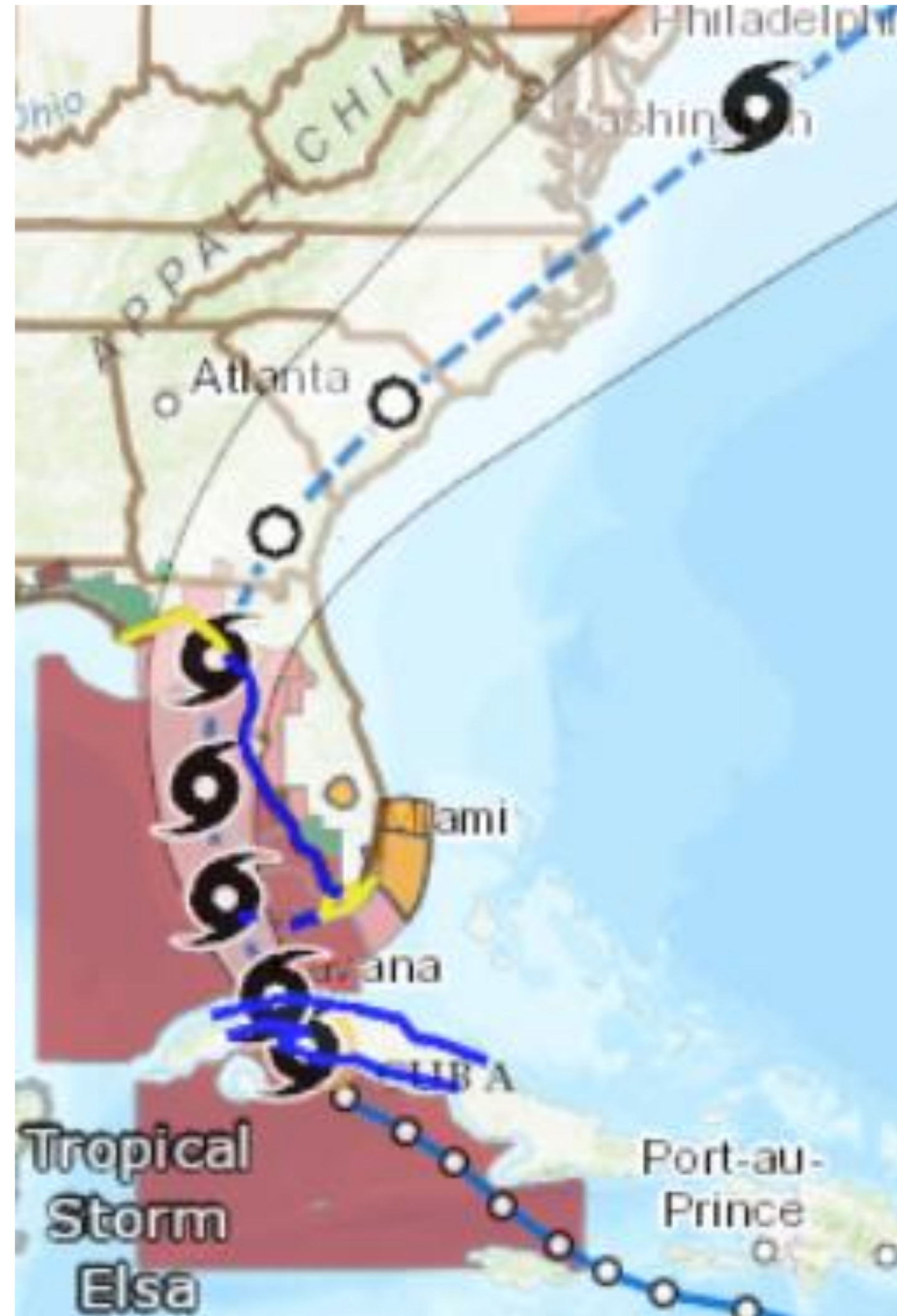
** Swaths are calculated using 67th percentile errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Hazards Map

Tropical Storm Elsa



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NWS National Hurricane Center



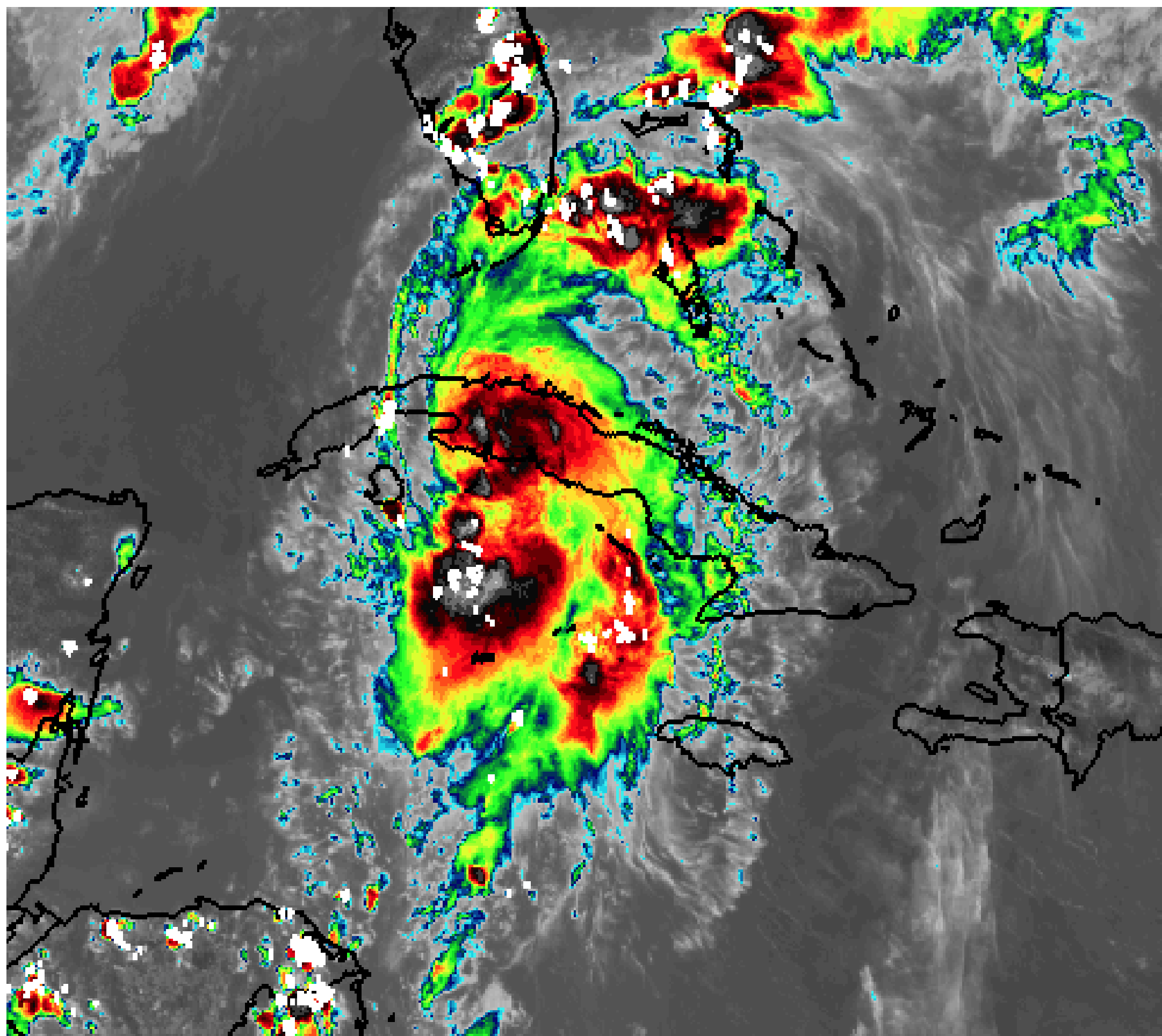
- <https://nowcoast.noaa.gov/>

Current Satellite View

Tropical Storm Elsa



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Current Radar View

Tropical Storm Elsa



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NWS National Hurricane Center



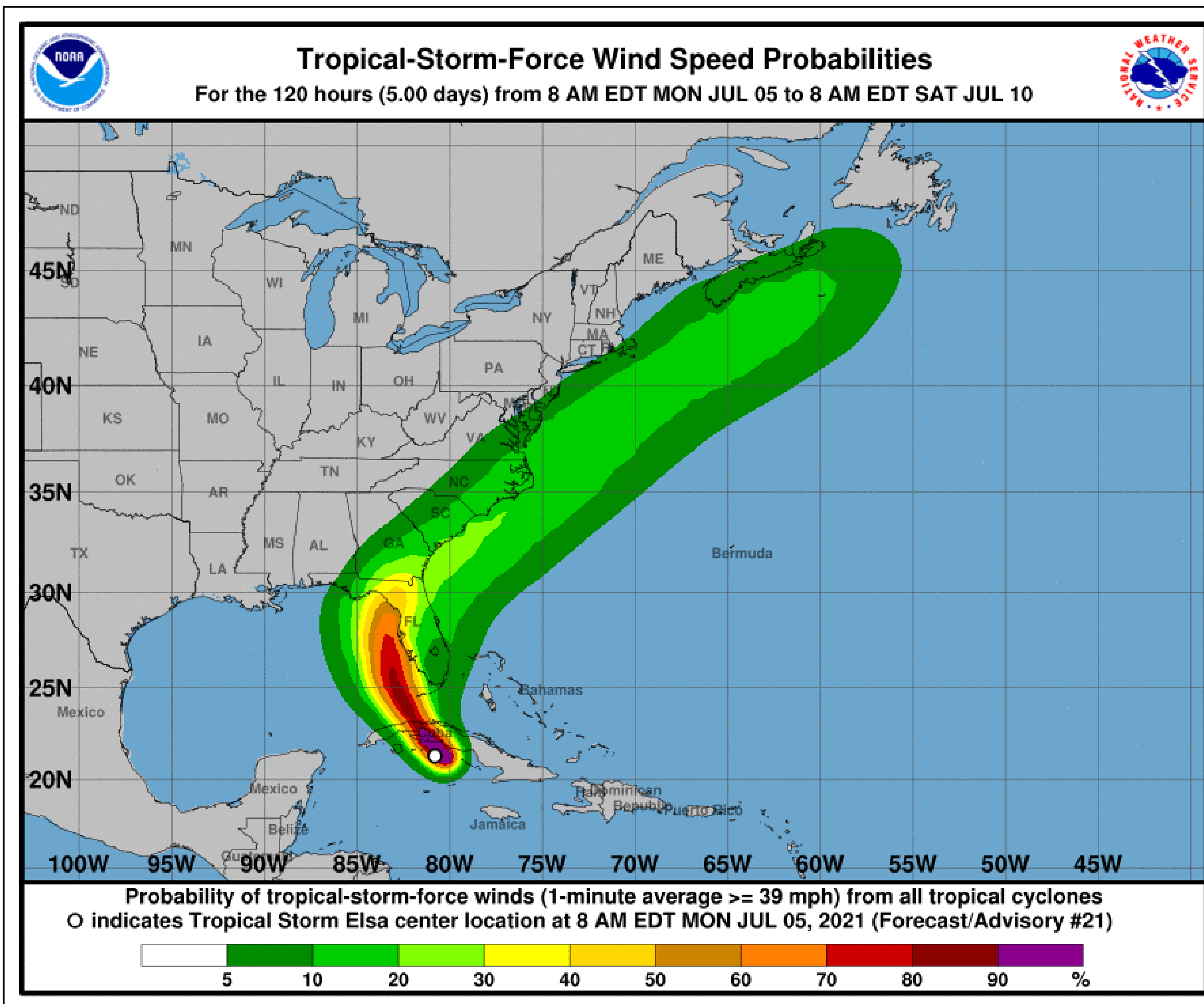
Radar composite from NWS and Cuba at 2:45 pm. Elsa making landfall across Cuba, squalls and bands of Tstorms have moved northward into S Florida coastal waters and across the south portion of the state already.

T.S. Wind Speed Probabilities

Tropical Storm Elsa



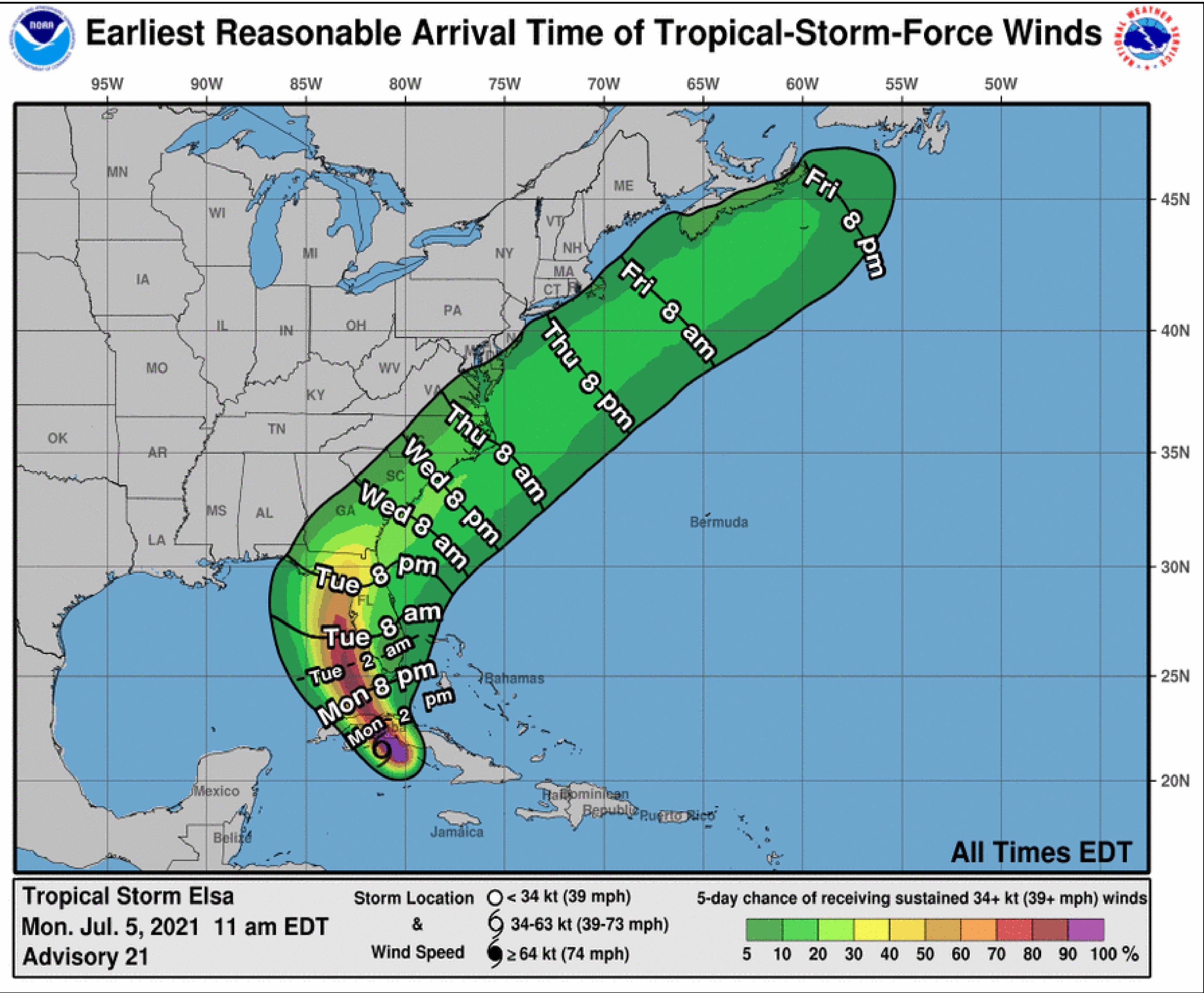
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NWS National Hurricane Center



- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.



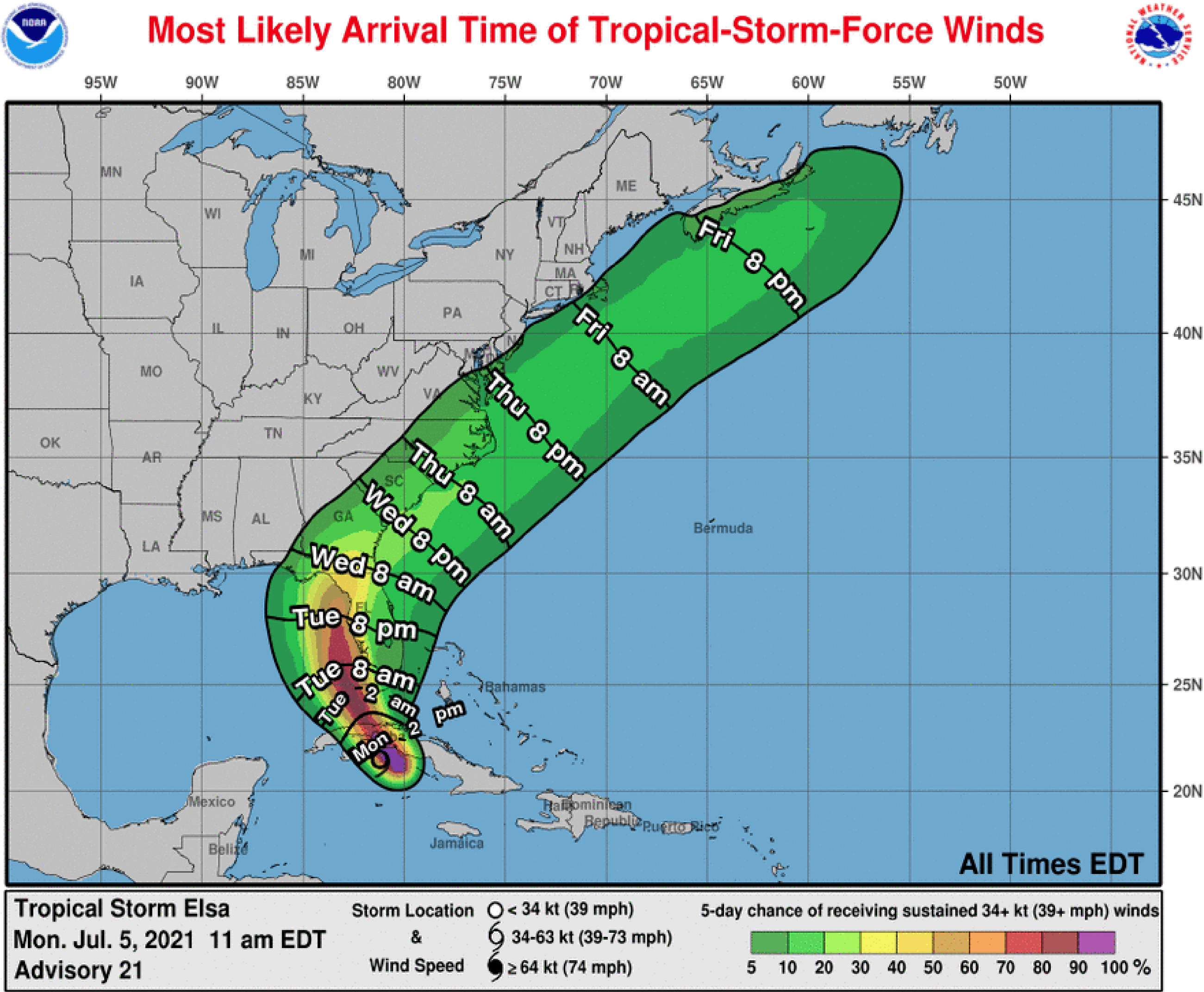
Tropical Storm Elsa



- The earliest reasonable time of arrival of Tropical Storm Force Winds (34 kt to 63 kt) for this cyclone based off the current track and wind radii.
- Earliest reasonable time of arrival for TS winds across Key West area is this evening
- Earliest reasonable time of arrival for TS winds across Tampa Bay/St Pete area is Tuesday midday
- See the color bar below the image for more details.



Tropical Storm Elsa



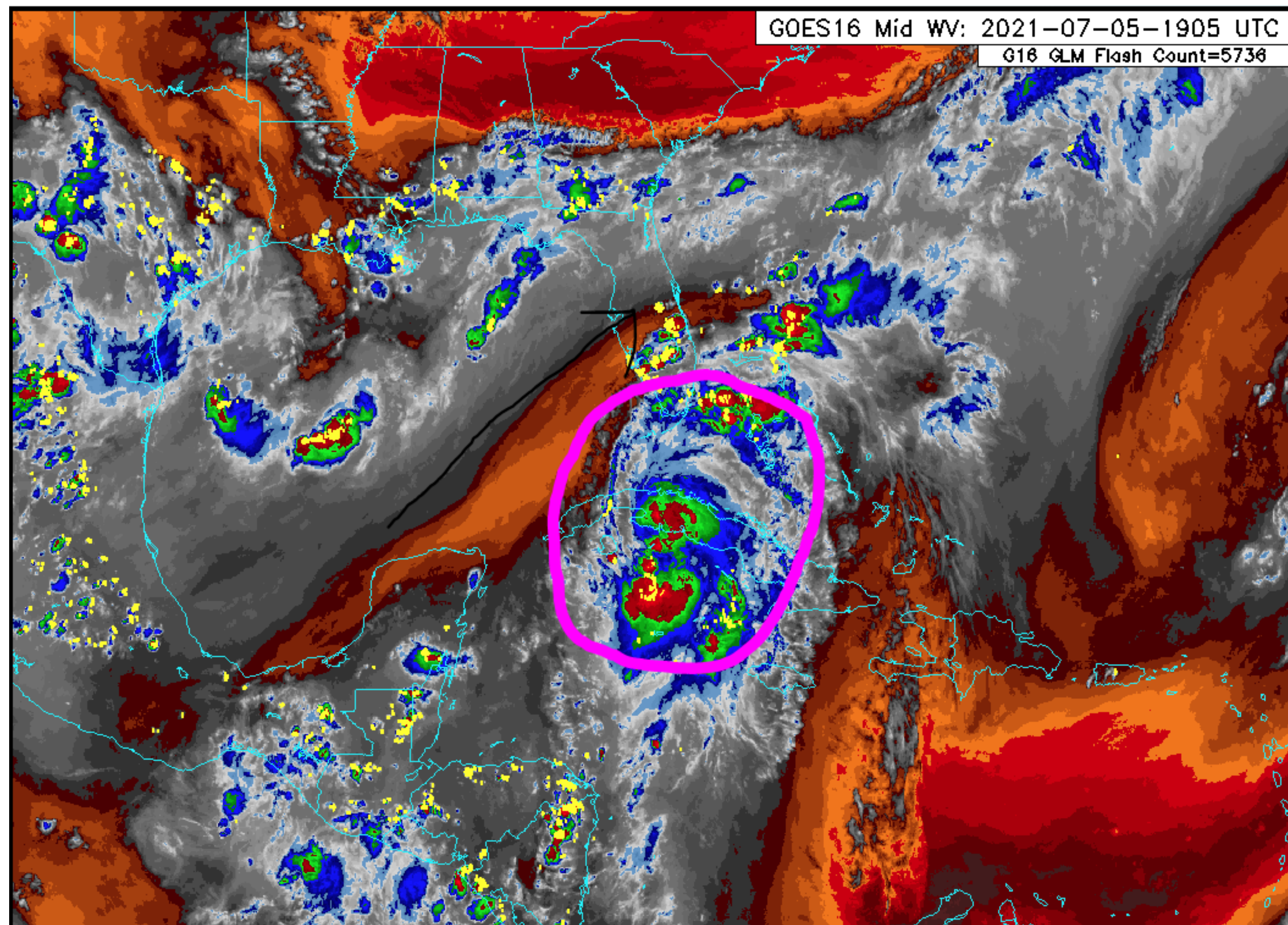
- The most likely time of arrival of Tropical Storm Force Winds (34 kt to 63 kt) for this cyclone based off the current track and wind radii.
- Most likely time of arrival for TS winds across Key West area is tonight
- Most likely time of arrival for TS winds across Tampa Bay/St Pete area is Tuesday evening
- See the color bar below the image for more details.

Graphical Overview

Tropical Storm Elsa



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NWS National Hurricane Center



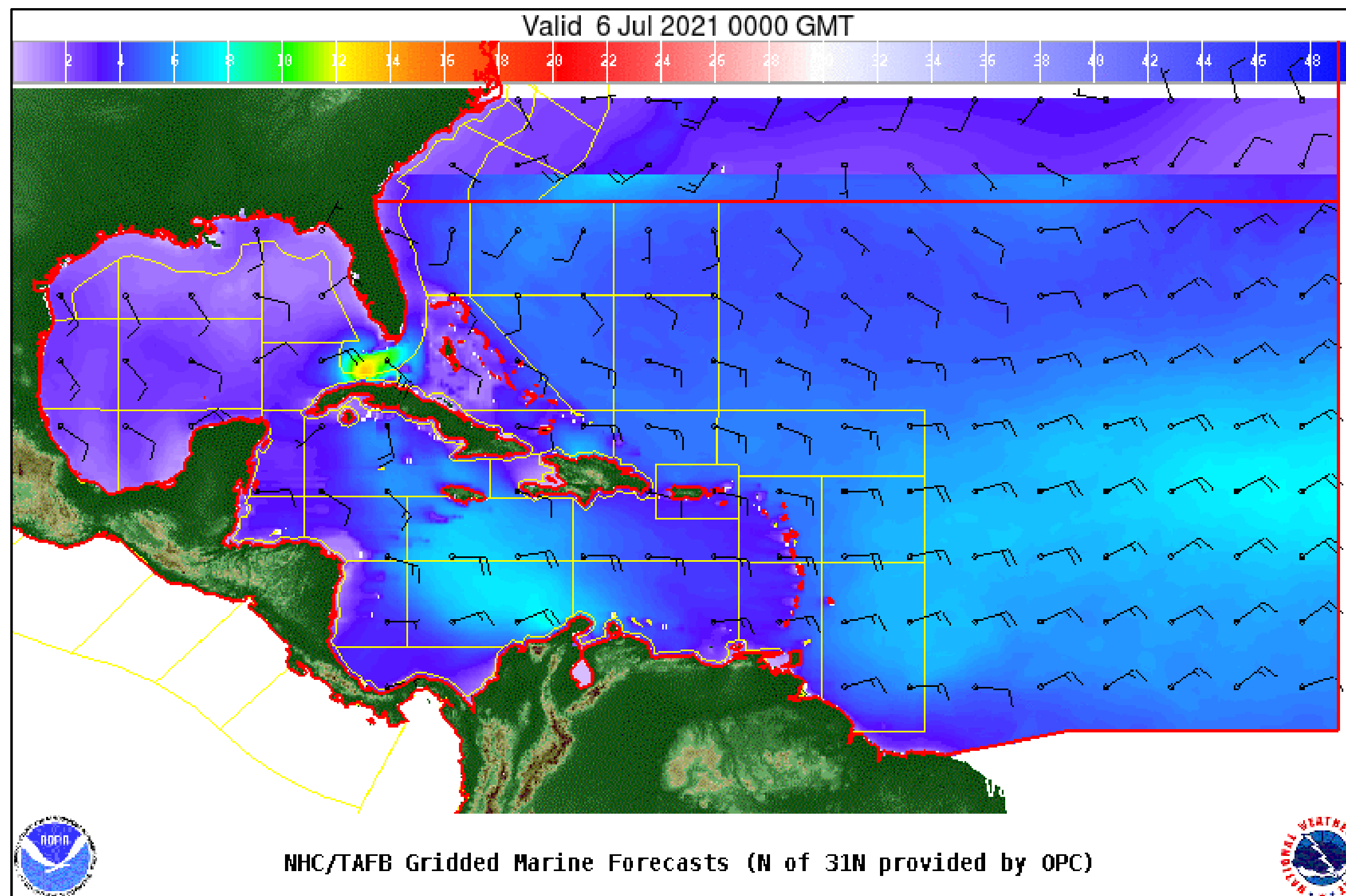
- GOES-16 WV image
- Black arrow shows edge of strong SW winds aloft that would strongly shear Elsa
- Area circled in fushia is presently where favorable atmospheric conditions prevail for sustained convection and intensification

Wind And Waves

Tropical Storm Elsa



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NWS National Hurricane Center



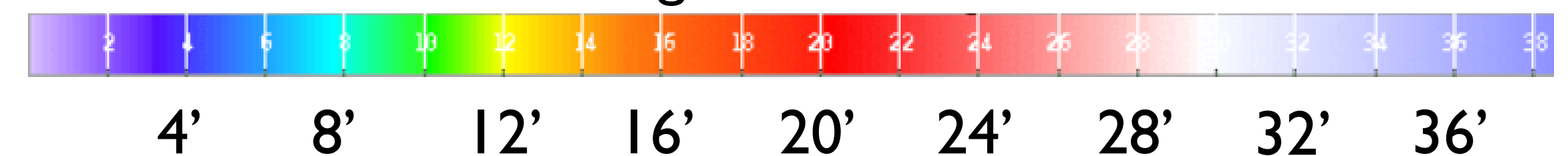
12 Hour Forecast

6 Jul 0000 UTC or 8 pm

Peak Winds: 55 kt

Peak Seas: 15 ft

■ Wave heights are in feet

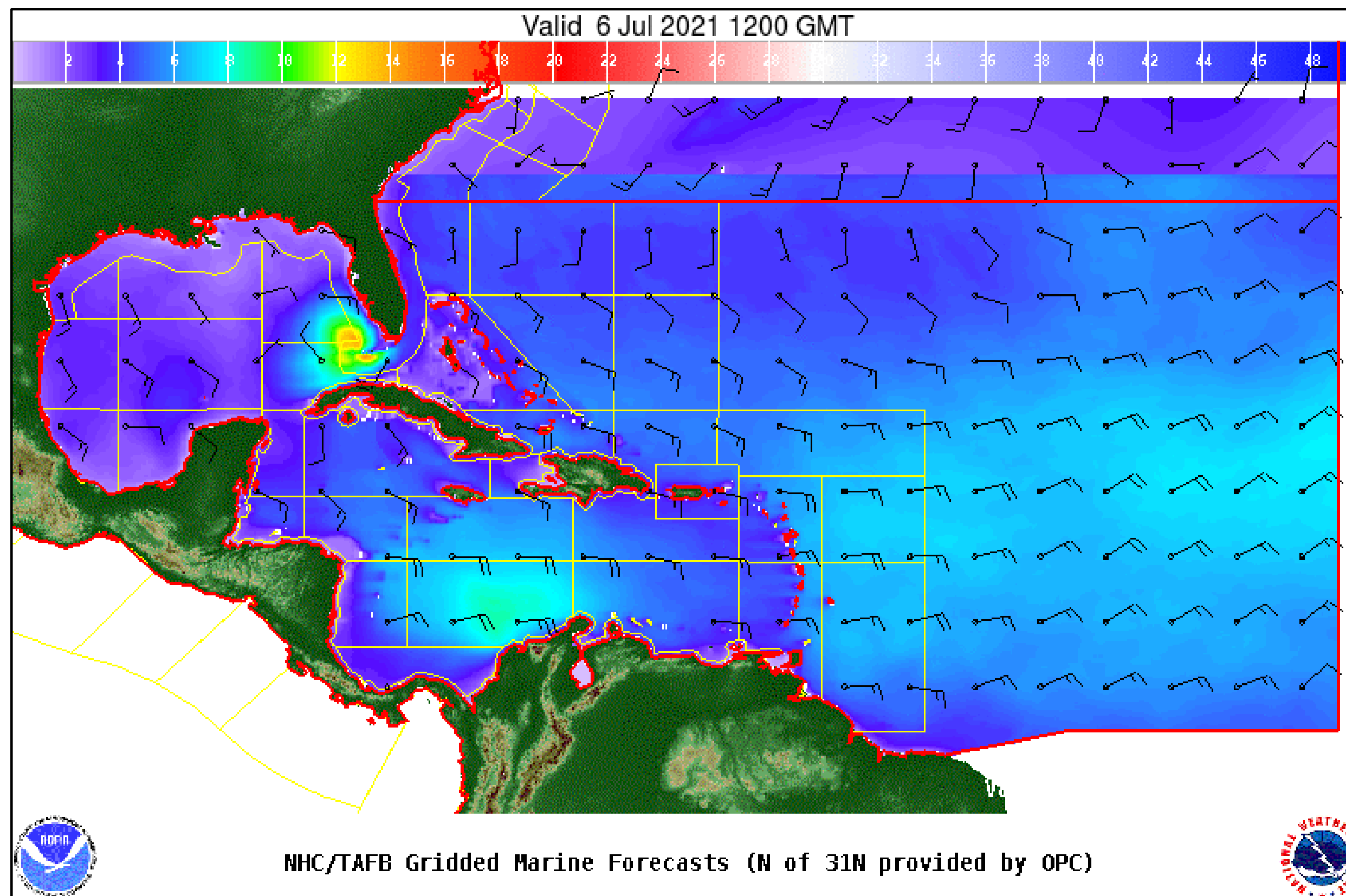


Wind And Waves

Tropical Storm Elsa



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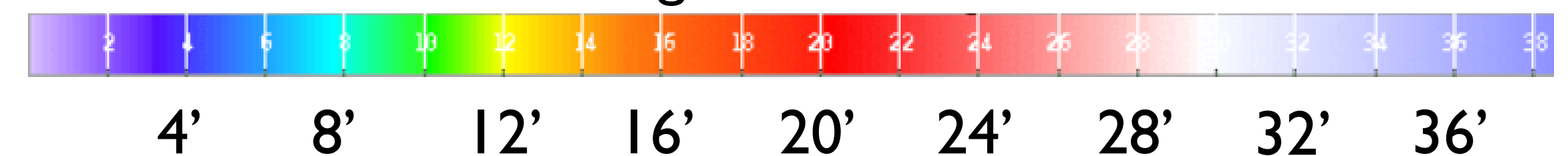
24 Hour Forecast

6 Jul 1200 UTC or 8 am

Peak Winds: 55 kt

Peak Seas: 17 ft

■ Wave heights are in feet

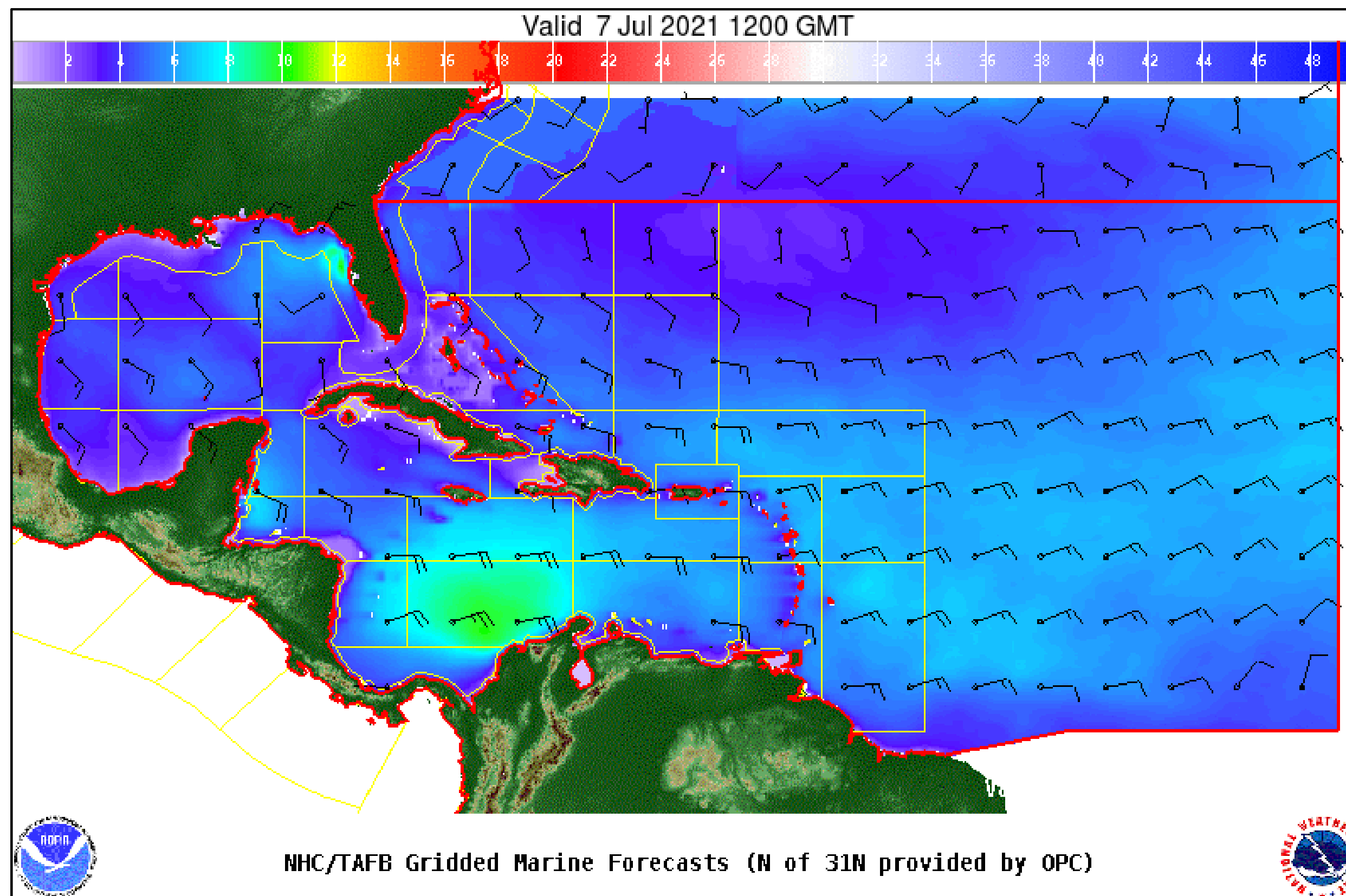


Wind And Waves

Tropical Storm Elsa



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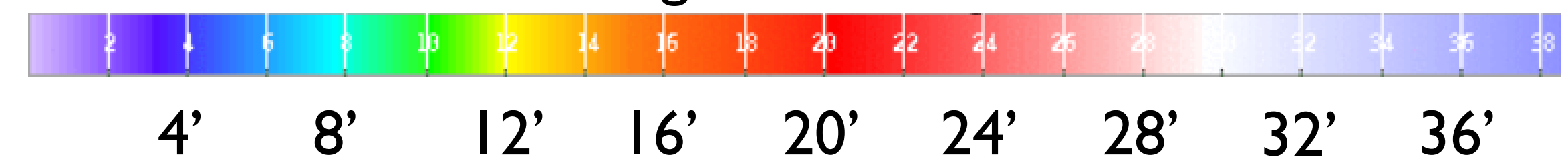
48 Hour Forecast

7 Jul 1200 UTC of 8 am

Peak Winds: 55 kt

Peak Seas: 16 ft

■ Wave heights are in feet

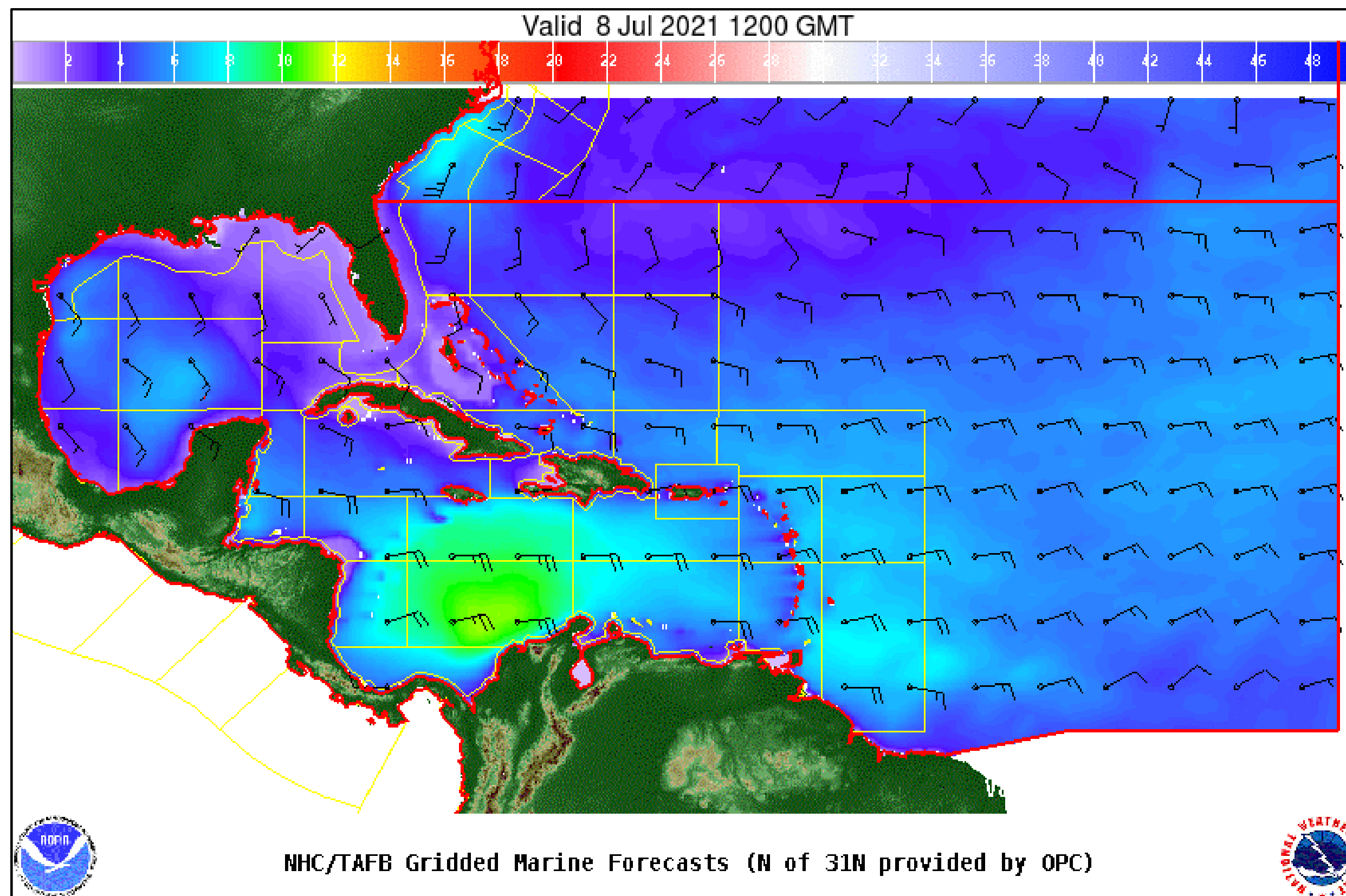


Wind And Waves

Tropical Storm Elsa

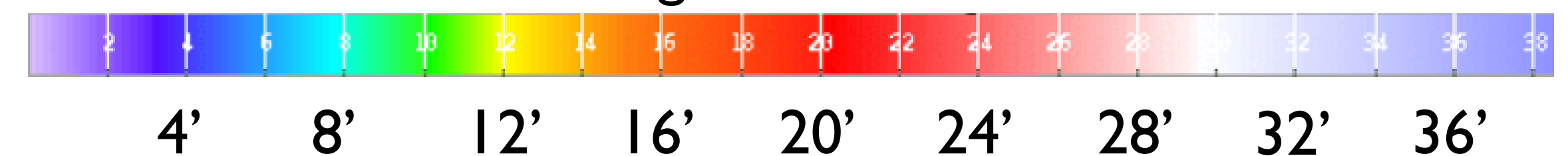


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72 Hour Forecast
8 Jul 1200 UTC of 8 am
Inland over SC
Peak Winds: 30 kt
Peak Seas: 3 ft Florida Big Bend

■ Wave heights are in feet

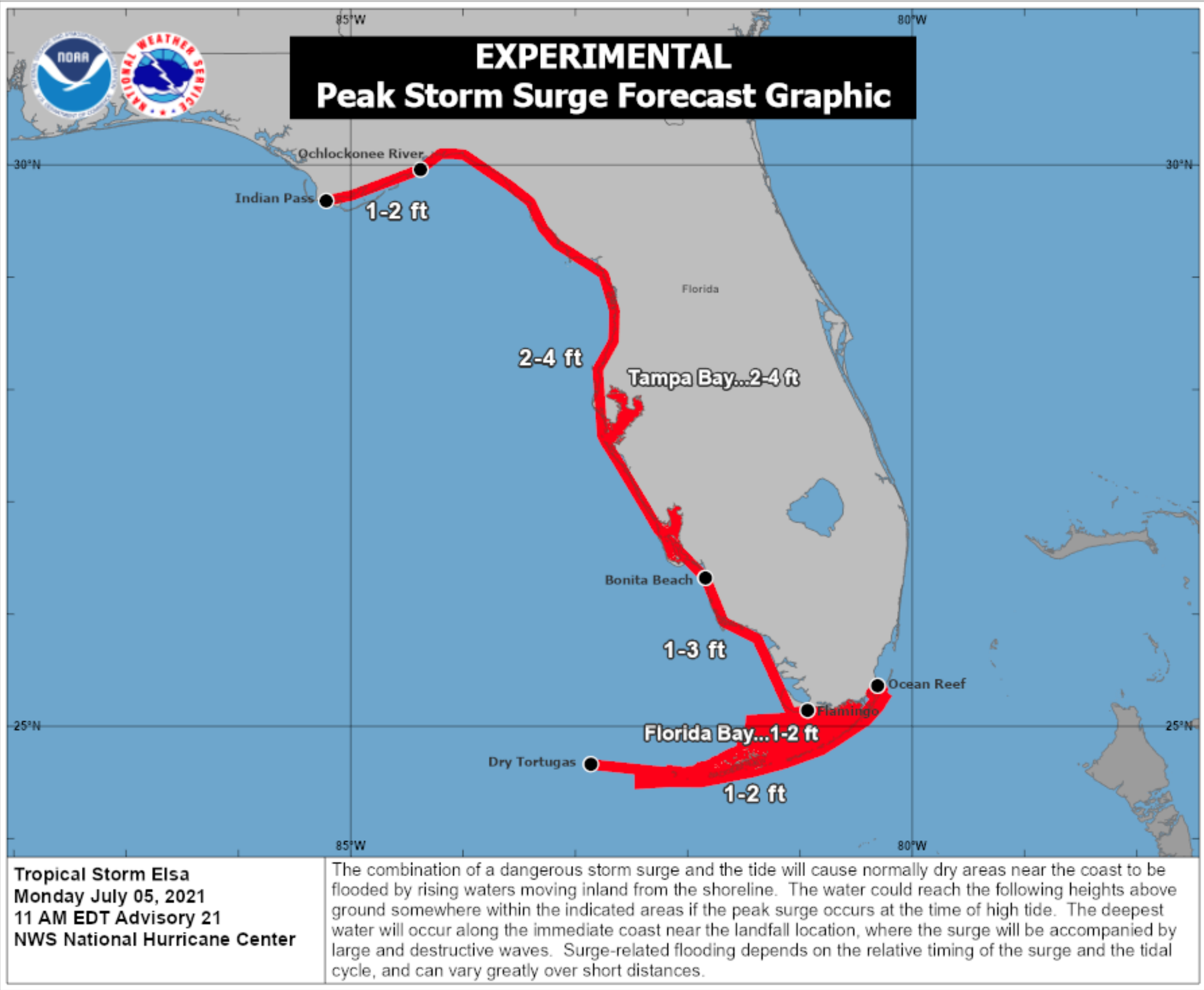


Potential Peak Storm Surge / Watches and Warnings

Tropical Storm Elsa



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NWS National Hurricane Center



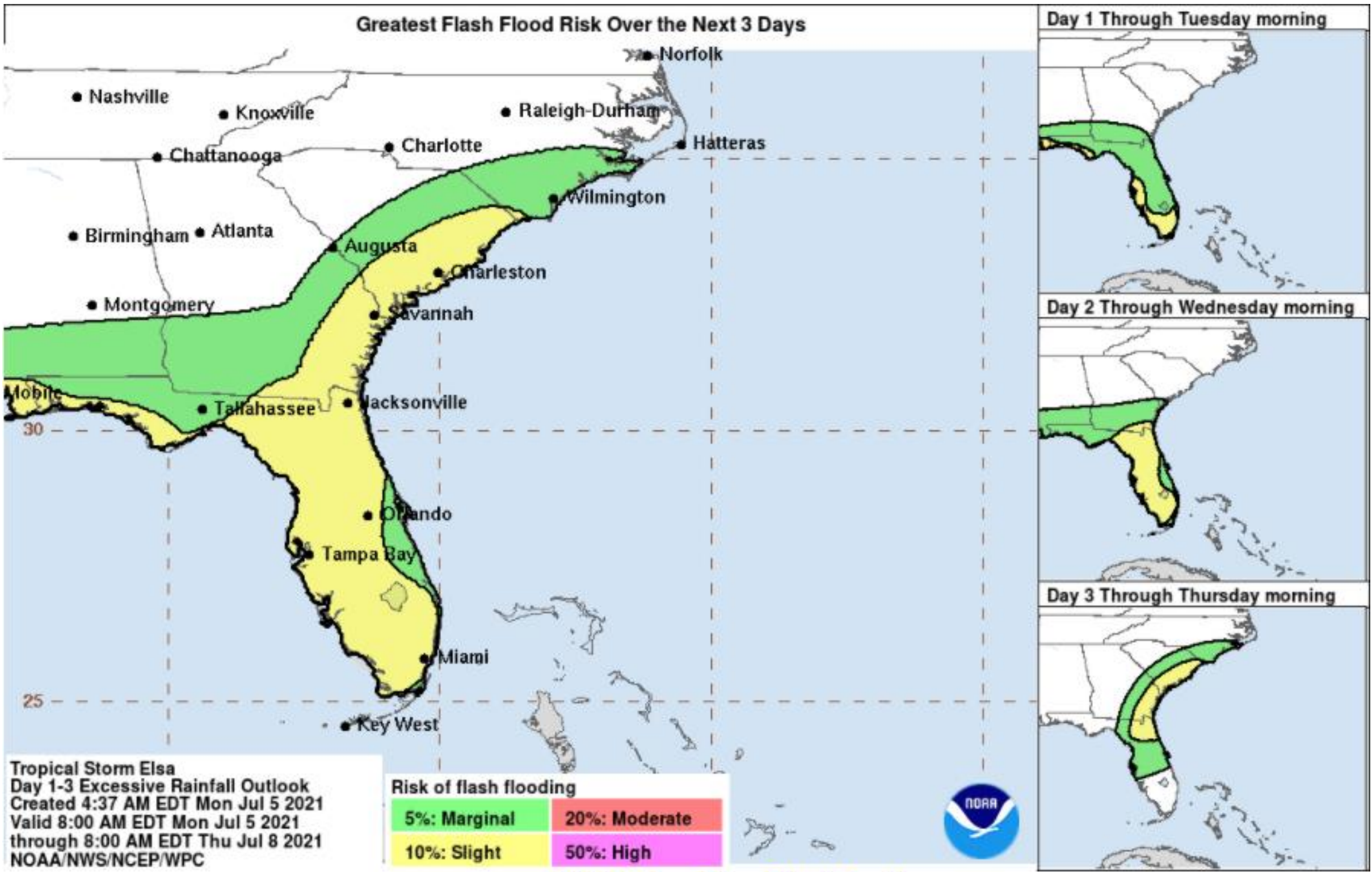
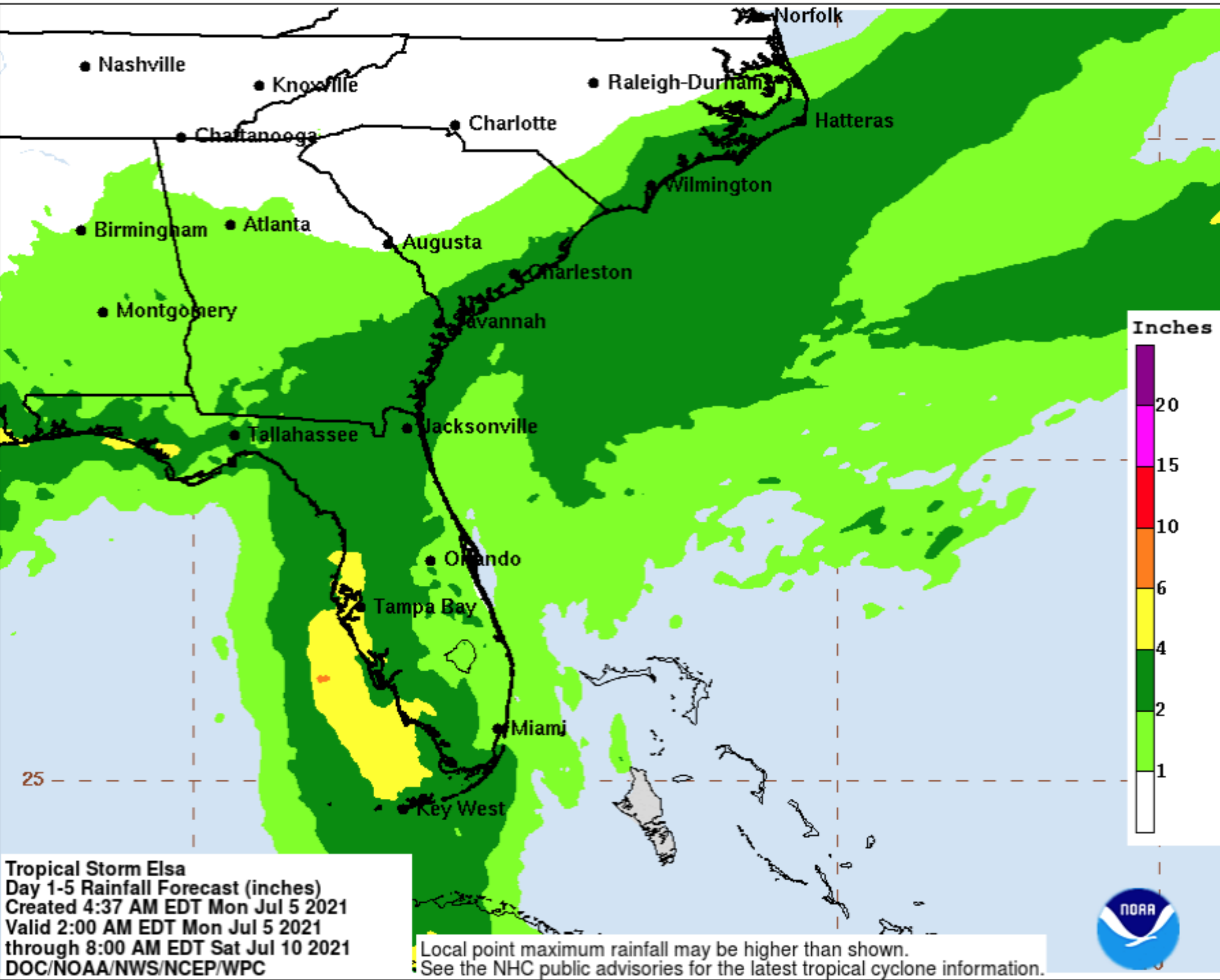
- Potential storm surge is represented in feet above the ground at any given point.

Expected Storm Total Rainfall and Chance of Rainfall Flooding



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Tropical Storm Elsa



- Total rainfall in inches through 10 Jul 1200 UTC or 8 am.



Refer to map legend for Valid Time

Key Messages

Tropical Storm Elsa



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Key Messages for Tropical Storm Elsa

Advisory 21: 11:00 AM EDT Mon Jul 05, 2021

Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.

1. Heavy rain will impact the Cayman Islands and Cuba today resulting in significant flooding and mudslides over Cuba. As Elsa approaches the Florida Keys, the Florida Peninsula, and coastal Georgia through Wednesday, heavy rainfall may result in isolated flash, urban, and minor river flooding. Mid to late week, heavy rains across coastal South Carolina and North Carolina may result in isolated flash and urban flooding.
2. Tropical storm conditions and a dangerous storm surge are expected to continue across portions of central and western Cuba today.
3. Tropical storm conditions are expected in portions of the Florida Keys and along the Florida west coast tonight through Tuesday night, where a Tropical Storm Warning is in effect. A Tropical Storm Watch and a Storm Surge Watch are in effect for portions of the west coast of Florida and the Florida Big Bend.
4. There is a risk of tropical storm conditions and storm surge impacts along the coasts of Georgia and the Carolinas Wednesday and Thursday.

Tropical Storm Elsa
Monday July 05, 2021
11 AM EDT Advisory 21
NWS National Hurricane Center


Current information: x
Center location 21.5 N 81.2 W
Maximum sustained wind 65 mph
Movement NW at 14 mph

Forecast positions:
● Tropical Cyclone ○ Post/Potential TC
Sustained winds: D < 39 mph
S 39-73 mph H 74-110 mph M > 110 mph

Potential track area: Day 1-3 Day 4-5
Watches: Hurricane Trop Stm
Warnings: Hurricane Trop Stm
Current wind extent: Hurricane Trop Stm

Tropical-Storm-Force Wind Speed Probabilities (Preliminary)

For the 120 hours (5.0 days) from 8 AM EDT MON JUL 05 to 8 AM EDT SAT JUL 10



Probability of tropical-storm-force winds (1-minute average ≥ 39 mph) from Tropical Storm Elsa
○ indicates Tropical Storm Elsa center location at 8 AM EDT MON JUL 05, 2021 (Forecast Advisory #21)

5 10 20 30 40 50 60 70 80 90 %

For more information go to hurricanes.gov

- Tropical Storm conditions and heavy rainfall occurring across Cuba today and will spread across the Straits of Florida and into extreme south Florida this evening and tonight.
- Tropical Storm winds will move into Straits of Florida this evening with seas quickly building to around 20 ft again tonight as Elsa passes just W of the Lower Florida Keys.
- Elsa expected to approach Tampa Bay/ St Petersburg area late Tuesday afternoon with moderate storm surge potential inside the bay.



TROPICAL STORM ELSA BRIEFING

You can contact the Tropical Analysis and Forecast Branch at
305-229-4424

*The Next Briefing Will Be:
Tuesday 9:00 AM EDT*

You can always find get the latest graphics and information for this storm at www.hurricanes.gov



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